

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2004/000978

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ G01V1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷ G01V1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNPAT WPI EPODOC PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US6330512B1(Phillips Petroleum Company)11.DEC.2001(11.12.2001) see entire document	1-4
A	US5253219A(Exxon Production Research)12.OCT.1993(12.10.1993) see entire document	1-4
A	US5173880A(Exxon Production Research)22.DEC.1992(22.12.1992) see entire document	1-4
A	CN1325493A(Schlumberger Holdings)05.DEC.2001(05.12.2001) see entire document	1-4

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
16.SEP.2004(16.09.2004)

Date of mailing of the international search report
21 . OCT 2004 (21 . 10 . 2004)

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2004/000978

Patent document cited in searchreport	Publication date	Patent family member(s)	Publication date
US6330513B1	11.12.2001	GB2349218A	25.10.2000
		AU200028929A	26.10.2000
		CA2306436A1	21.10.2000
		ZA200002020A	31.01.2001
US5253219A	12.10.1993	NONE	
US5173880A	22.12.1992	NONE	
CN1325493A	05.12.2001	AU761287B	29.05.2003
		WO0026694A2	11.05.2000
		AU6117499A	22.05.2000
		NO200102182A	02.07.2001
		EP1127282A2	29.08.2001
		GB2363456A	19.12.2001
		GB2363456B	12.02.2003

国际检索报告

国际申请号

PCT/CN2004/000978

A. 主题的分类

IPC⁷ G01V1/00

按照国际专利分类表(IPC)或者同时按照国家分类和 IPC 两种分类

B. 检索领域

检索的最低限度文献(标明分类系统和分类号)

IPC⁷ G01V

包含在检索领域中的除最低限度文献以外的检索文献

在国际检索时查阅的电子数据库(数据库的名称, 和使用的检索词(如使用))

CNPAT WPI EPODOC PAJ

C. 相关文件

类 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
A	US6330513B1(Phillips Petroleum Company)11.12 月 2001(11.12.2001)见全文	1-4
A	US5253219A(Exxon Production Research Company)12.10 月 1993(12.10.1993)见全文	1-4
A	US5173880A(Exxon Production Research Company)22.12 月 1992(22.12.1992)见全文	1-4
A	CN1325493A(施鲁博格控股有限公司)05.12 月 2001(05.12.2001)见全文	1-4

☐ 其余文件在 C 栏的续页中列出。☒ 见同族专利附件。

* 引用文件的具体类型:

“A” 认为不特别相关的表示了现有技术一般状态的文件

“E” 在国际申请日的当天或之后公布的在先申请或专利

“L” 可能对优先权要求构成怀疑的文件, 为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件

“O” 涉及口头公开、使用、展览或其他方式公开的文件

“P” 公布日先于国际申请日但迟于所要求的优先权日的文件

“T” 在申请日或优先权日之后公布, 与申请不相抵触, 但为了理解发明之理论或原理的在后文件

“X” 特别相关的文件, 单独考虑该文件, 认定要求保护的发明不是新颖的或不具有创造性

“Y” 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性

“&” 同族专利的文件

国际检索实际完成的日期

16.9 月 2004(16.09.2004)

国际检索报告邮寄日期

21.10月2004 (21.10.2004)

中华人民共和国国家知识产权局(ISA/CN)

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传真号: (86-10)62019451

授权官员

电话号码: (86-10)62085733

国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2004/000978

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
US6330513B1	11.12.2001	GB2349218A	25.10.2000
		AU200028929A	26.10.2000
		CA2306436A1	21.10.2000
		ZA200002020A	31.01.2001
US5253219A	12.10.1993	无	
US5173880A	22.12.1992	无	
CN1325493A	05.12.2001	AU761287B	29.05.2003
		WO0026694A2	11.05.2000
		AU6117499A	22.05.2000
		NO200102182A	02.07.2001
		EP1127282A2	29.08.2001
		GB2363456A	19.12.2001
		GB2363456B	12.02.2003